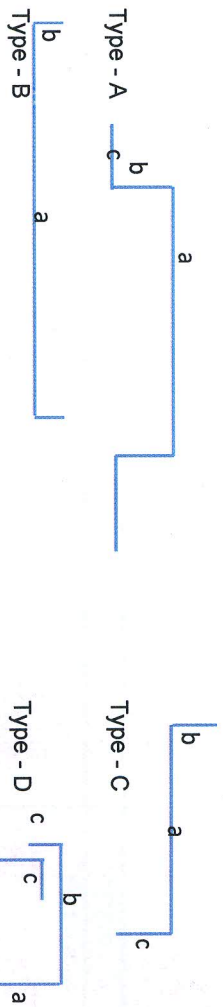


Bar Bending Schedule of 30m high 3legged tower



Cover -
Slab 50 mm
Column 40 mm
Beam 25 mm

Item	Position	Type	Dia. Of Rebar (mm)	Size	Size	Size	Length (mm)	Qty in Nos both ways or total	Unit wt (kg/m)	Total Weight of (kg)
				a (mm)	b (mm)	c (mm)				
Raft Slab	Top	B	B10	2250	150	-	2550	84	0.62	132
	Bottom	B	B10	2250	150	-	2550	108	0.62	170
Tie Beams	Top	B	B16	4150	300	-	4750	6	1.58	45
	Bottom	B	B16	4150	300	-	4750	6	1.58	45
	Strips	D	B8	250	250	80	1160	75	0.40	34
	Main	C	B20	3200	330	750	4280	24	2.47	254
Column	Ties	D	B8	342	342	80	1528	69	0.40	42
		D	B8	242	242	80	1128	69	0.40	31
Total (5% extra considered)										800

* Chairs Shall be Provided whenever required

Notes :

1. Dimensions of Bars are along the Center Lines.
3. Splicing of Bars should not be more than 50%. Length of splice as per Standards.

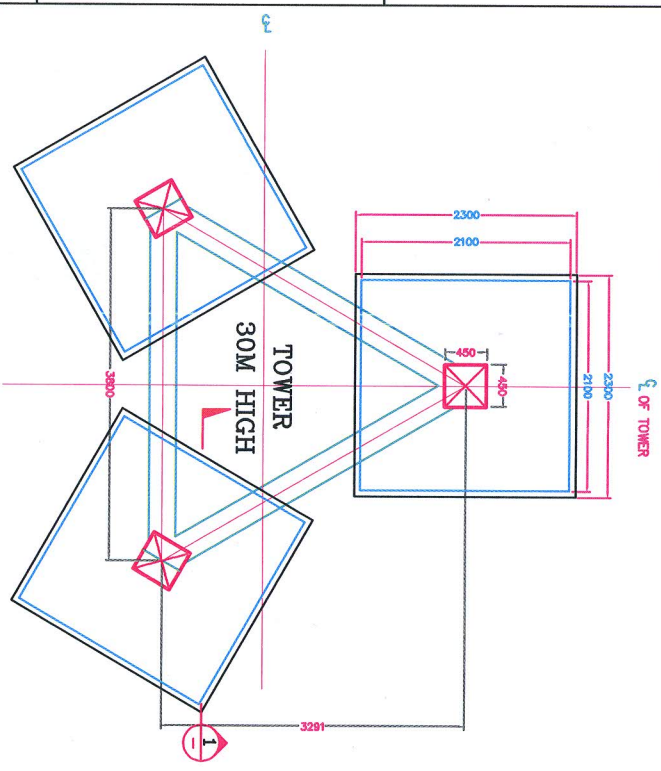
Description & Values of Symbols

Cement Concrete Sizes

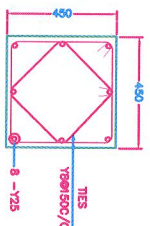
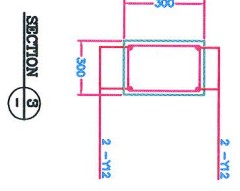
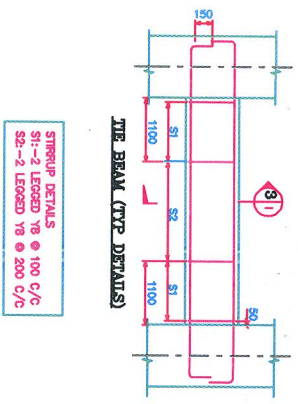
Symbol	Description	Value	Units
th_pcc	Thickness of PCC	100	mm
s_pcc	Side of PCC below the slab	2550	mm
d_excavation	Depth of Excavation	3200	mm
d_foundation	Depth of Foundation below ground level	3100	mm
s_slab	Side/Dia of slab	2350	mm
th_slab	Thickness of Slab	350	mm
d_column_bg	Depth of Column below ground level(d_foundation_bg)	2650	mm
cc_columns	Center to Center distance of Tower Leg Columns	3800	mm
cc_tower	Tower Base Width, Centre to centre of tower legs	3800	mm
h_foundation	Height of Foundation above Ground Level	300	mm
w_p.beam	Width of Primary Beam	2	mm
d_p.beam	Depth of Primary Beam	16	mm
s_Column	Side of (square)Column, for tower, width or depth	450	mm
d_column_slab	Distance from end of Slab to center of Column	1175	mm

Calculated Values

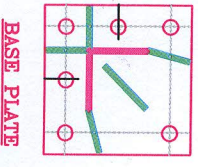
Toatl Volume of PCC	2.3	cu.m
Total Volume of RCC	8.5	cu.m
Total PCC + RCC	10.8	cu.m
Excavation, assuming vertical digging	61.1	cu.m



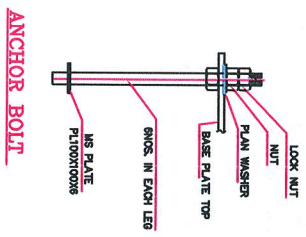
FOUNDATION KEY PLAN



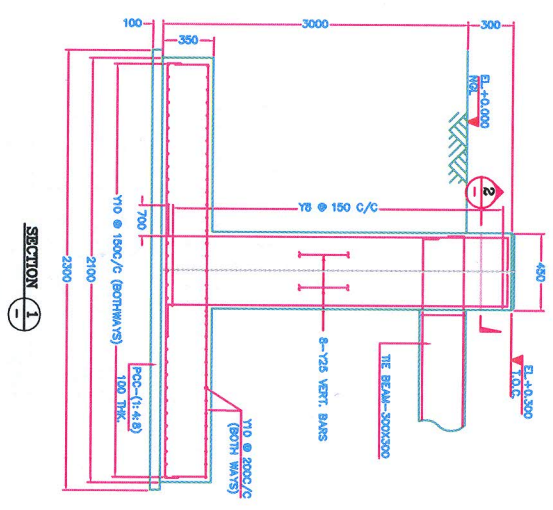
SECTION 2
COLUMN 450X450



BASE PLATE



ANCHOR BOLT



SECTION 1

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. USE M20 GRADE CONCRETE AND R445 GRADE FOR STEEL.
3. CLEAN COVER TO BARS REINFORCEMENT:-
(a) 25MM FOR BEAMS
(b) 30MM FOR COLUMNS
(c) 50MM AT ENDS
4. PRIOR TO AND DURING CONCRETE ALL BARS SHALL BE SECURELY TIED TO PREVIOUS LAYERS OF REINFORCEMENT.
5. BEFORE COMMENCEMENT OF CONCRETE USING THE DESIGNER/CLIENT/CONTRACTOR SHALL CARRY OUT DETAILLED SOIL INVESTIGATION OF EVERY SITE.
6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN CASE HEAVY SOIL ARE FOUND AT ANY DEPTH DURING SOIL INVESTIGATION.
7. CONCRETE SHALL BE MECHANICALLY MIXED & VIBRATED.
8. SPACING OF BARS SHALL NOT BE MORE THAN 50% AT ANY LOCATION.
9. PROPER CURING OF CONCRETE SHALL BE DONE.
10. BONDING OF BARS SHALL BE AS PER IS 2502.
11. ANY DISCREPANCY SHOULD BE BROUGHT TO THE CONSULTANT'S ATTENTION.

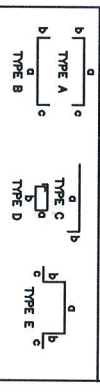
GENERAL DETAILS

SNo	DESCRIPTION	DETAILS
1	SOIL BEARING CAPACITY	10.00 T/SQM
2	DRY DENSITY OF SOIL	1.75 T/SQM
3	ANGLE OF REPOSE	25.00 DEGREE

BILL OF MATERIALS

ITEM	UNIT	TOTAL
EXCAVATION	CUM	55.6
POC-(14x8)	CUM	2.1
POC-420	CUM	7.5
STEEL-F415	KG	800

BAR BENDING SCHEDULE



REVISION NOTES

REV. NO.	DESCRIPTION	DATE	SIGN.
DRAWN	CHECKED	APPROVED	SCALE
sketches	MOHT GUPA	MOHT GUPA	1:1-01-2021
DATE			IMS

DESIGN BY: **ICON POWER SOLUTIONS PVT. LTD.**
THIMPU, BHUTAN
BHUTAN TELECOM LTD.
BHUTAN

PROJECT: **GENERIC ISOLATED FOUNDATION DESIGN**
BHUTAN

TITLE: **FOUNDATION DETAILS FOR 30M HIGH TRIANGULAR TOWER**
 SCS : 10 T/SQM
 DRAWING No. **AGD-319** SH. NO. REV.

